

#3624

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WATER QUALITY M E M O R A N D U M

Utah Coal Regulatory Program

January 6, 2011

TO: Internal File

THRU: Daron Haddock, Permit Supervisor *10027*

FROM: James D. Smith, Environmental Scientist *DS 01/06/11*

RE: 2010 Third Quarter Water Monitoring, PacifiCorp, Cottonwood/Wilberg Mine, C/015/0019, Task ID #3624

The Cottonwood/Wilberg Mine is currently idle. The water monitoring plan is described in Appendix A of Volume 9 of the MRP.

There are no springs monitored at this site. The mine was sealed May 10, 2001, so in-mine monitoring sites TMA @ 32 and 2nd S XC-11 are no longer accessible. WCWR1 at the Waste Rock Site is the only well monitored. The pond at the Cottonwood Fan Portal was reclaimed in 2002 so UPDES 22896-002 is no longer reported to DOGM or the Division of Water Quality. UT0022896-001 was the only UPDES outfall to discharge during the Third Quarter 2010.

1. Were data submitted for all of the MRP required sites?

Streams

YES ☒ NO ☐

The streams were mostly dry during the Third Quarter; the only streamflow reported was in September at site CCC1.

Well

YES ☒ NO ☐

UPDES

YES ☒ NO ☐

DMRs are submitted in electronic format (Adobe). DMR data are submitted to the DOGM database as operational parameters, not as DMR parameters. UT0022896-001 was the only UPDES outfall to discharge during the Third Quarter 2010.

2. Were all required parameters reported for each site?

Streams

YES ☒ NO ☐

Well YES ☒ NO ☐
UPDES YES ☒ NO ☐

UT0022896-001 was the only UPDES outfall to discharge during the Third Quarter 2010.

3. Were any irregularities found in the data?

Listed parameters were outside two standard deviations. An asterisk (*) indicates this is not a parameter required by the MRP.

Streams YES ☐ NO ☒
Well YES ☐ NO ☒
UPDES YES ☒ NO ☐

UT0022896-001 (WMD01) September: cation - anion balance. The ratio is -2.52%, well within the $\pm 5\%$ criterion; however, the average value for this parameter is +1.4% and the negative value is outside the 2 standard-deviation range. [There is a long-term trend of increasing bicarbonate and decreasing sulfate and chloride (see chart)].

4. On what date does the MRP require a five-year resampling of baseline water data.

The next permit renewal will be on 07/06/14. Baseline analyses were performed in 2001 and 2006 and the next five-year baseline analyses will be in 2011.

5. Based on your review, what further actions, if any, do you recommend?

No further action is required at this time.

6. Does the Mine Operator need to submit more information to fulfill this quarter's monitoring requirements? YES ☐ NO ☒

7. Follow-up from last quarter, if necessary. NA ☒

8. Did the Mine Operator submit all missing and/or irregular data?

YES ☐ NO ☐ NA ☒

There were no missing or irregular data in the Third Quarter 2010.

